



ATSC-M/H DIGITAL TV RECEIVER

VT-MH

ATSC-M/H Digital TV Receiver

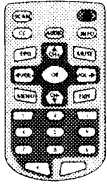
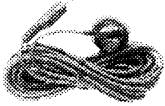
OPERATING MANUAL

Always be careful when using your product. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.

- Read all safety and operating instructions before operating your product.
- Keep the safety and operating instructions for future reference.
- Heed all warnings on the product and in the operating instructions.
- Follow all operating and use instructions.
- Never add any attachments and/or equipment without approval of the manufacturer. Such additions can increase the risk of fire, electric shock, or other personal injury.
- Do not use the product where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.

1. ACCESSORIES

The items color and shape may vary depending on the model.

ATSC M/H Receiver	Remote Unit	Power Cable	A/V Cable
			
Pole Antenna	IR Extension Receiver	Operation Manual	Accessories
			

2. ATTENTION

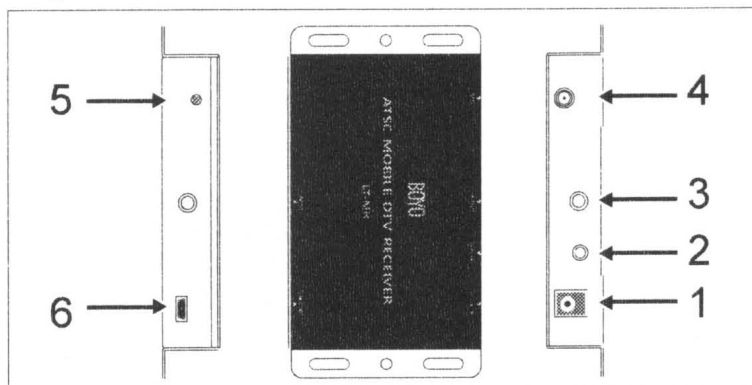
2.1 Caution at use

For program reception

- ▶ If reception grows worse in digital broadcasting, image does not come out, or sound on the way expire, or there is that voice is not said being still image screen, screen of black.
Suspends use of such device or separates from product
- ▶ If user receives product at place that is near to discharge device(high-tension electric Line, transmitting station of radio/television broadcast, Wireless transmitting station, neon sign), the Video/Audio grows worse or there is occasion that noise is heard
- ▶ There is in case of Reception situation of electric wave changes by area/weather in this product
- ▶ There is in case of this product can not receive at broadcasting area by effect of stumbling block etc...
- ▶ This product grows worse Video/Audio according to running speed of a car, or there is in case of can not receive.
- ▶ If this product operates cars Electronic Assembly (Power-window, windshield wiper, electric motion mirror, Air Conditioner fan etc.) in case of reception of signal is weak, Block Noise comes out to Video or sound on the way be expired or is Still Video, Black Video.

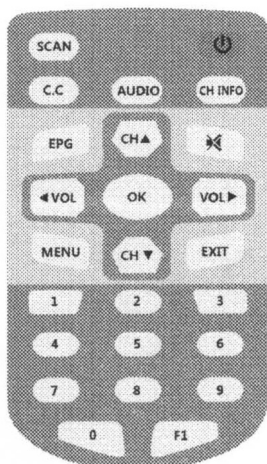
3. VIEWING THE PANEL

3.1 ATSC Mobile Digital Receiver



- 1 POWER(DC12/24V) INPUT**
Connect the Cigarjack or power cable or adaptor of household.
- 2 RCU (IR Extension Receiver)**
Connect the IR Extension Receiver. Receives IR signals from the Remote.
- 3 A/V Output(VIDEO & AUDIO Output Port)**
Connect this jack to the A/V input jack on your TV using a video cable.
- 4 ANT (ANTENNA INPUT PORT)**
Connect the Pole Antenna(ATSC Mobile DTV Antenna only)
- 5 RED LED(Power LED)**
This LED shown the status of power on/off.
- 6 Data**
This Comm port is used for maintenance purpose only.

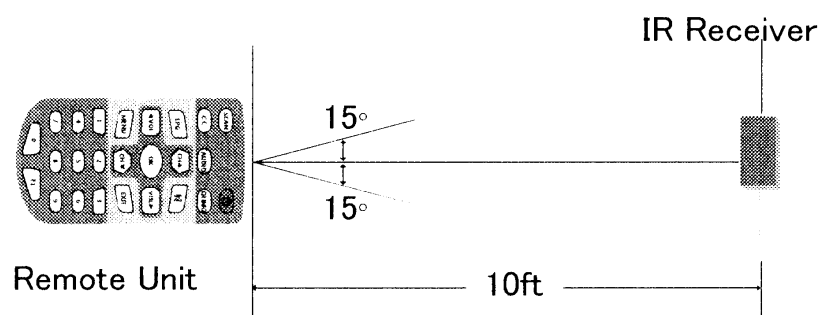
3.2 Remote Unit



FUNCTION			
ITEMS	FUNCTION	ITEMS	FUNCTION
SCAN	CHANNEL SCAN BUTTON	MENU	PRESS TO DISPLAY THE OSD MENU
C.C	PRESS TO DISPLAY THE CLOSE CAPTION.	CH▲	PRESS TO MOVE THE CHANNEL UPWARD
EPG	PRESS TO DISPLAY THE EPG	CH▼	PRESS TO MOVE THE CHANNEL DOWNWARD
AUDIO	PRESS TO CHANGE THE CURRENT MTS SOUND.	VOL▶	PRESS TO MOVE THE VOLUME INCREASE
INFO	PRESS TO DISPLAY INFORMATION ON THE CURRENT CHANNEL	◀VOL	PRESS TO MOVE THE VOLUME DECREASE
MUTE	PRESS TO MUTE VOLUME	EXIT	PRESS TO EXIT FROM THE OSD OR DISPLAY
OK	PRESS THIS BUTTON TO CONFIRM THE MENU OPTION	0 ~ 9	PRESS TO INPUT NUMBER OR GO TO DIRECTLY TO A SPECIFIC CH
POWER	PRESS TO TURN THE POWER ON OR OFF	F1	SPARE BUTTON

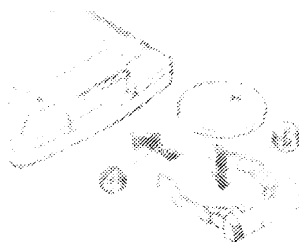
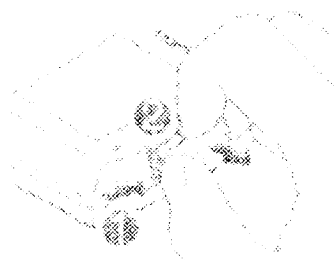
3.3 OPERATING RANGE of REMOTE UNIT

The operation range of Remote Unit is within 10ft .



Installing the Batteries

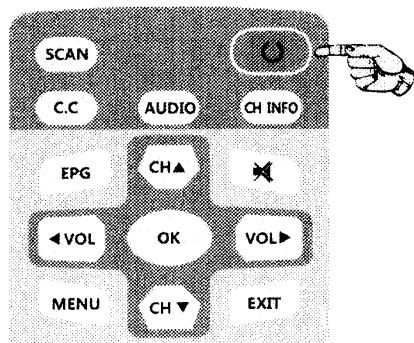
Remove the battery cover on the back of your remote control as shown below. Put one battery into the compartment and close the cover.



4. FUNCTIONS

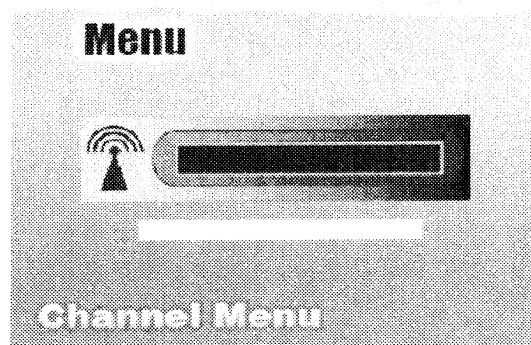
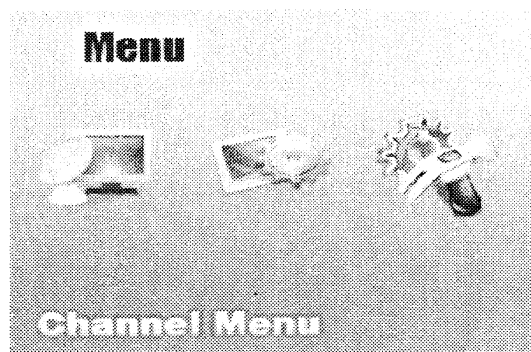
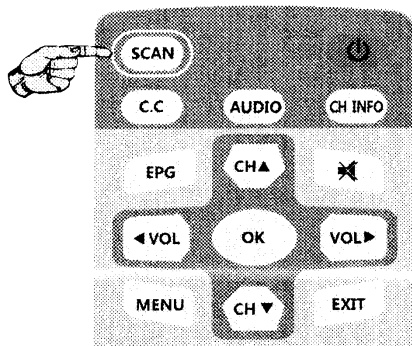
4.1 POWER ON/OFF

- ▶ Press to turn the power on or off.
- ▶ When turn on the ATSC-M/H Digital Receiver(VT-MH), then it will be display the picture.



4.2 CHANNEL SCAN

- ▶ When you use ATSC-M/H Digital Receiver(VT-MH) for the first time, press SCAN button and receive channels.
- ▶ When you move another area, then have to scan one more time to receive channels.
- ▶ When you have finished channel scan, the channel data will be stored in the receiver.
- ▶ If you want to stop the scan process while scanning, then press EXIT key.



4.3 CHANNEL SELECTION

There is 3 ways to select channels.

- ▶ **MANUAL SELECTION**

Press the CH ▲/CH ▼ button.

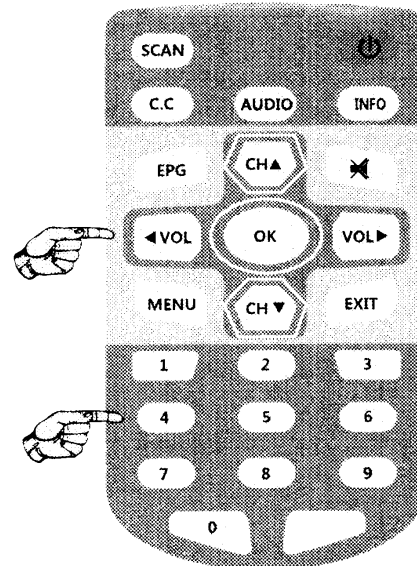
Whenever press button, it will be changed the next(or previous) channel.

- ▶ **DIRECT SELECTION**

If press numeric button, it will be selected directly.

- ▶ **CHANNEL LIST**

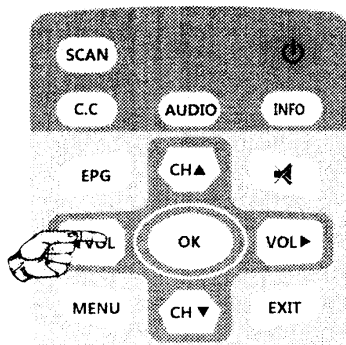
Press "OK" button to display the scanned channels.



4.4 CHANNEL INFORMATION

Press "Info" button to display the channel information.

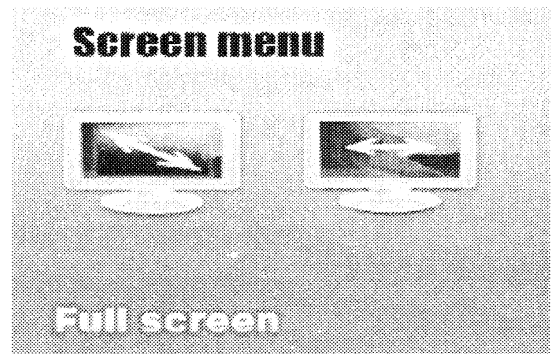
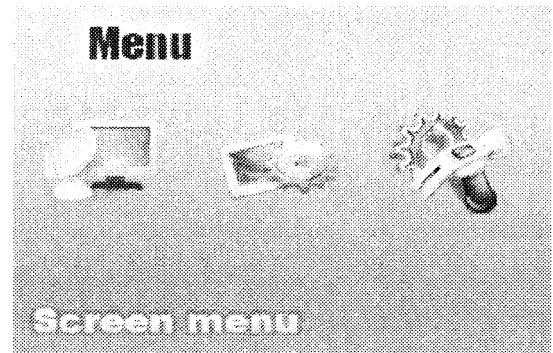
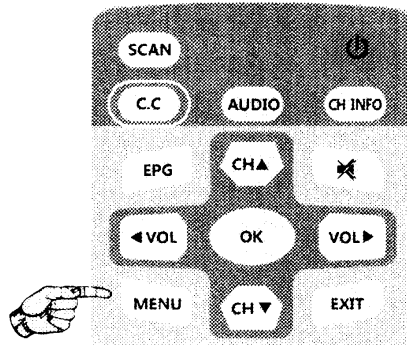
- ▶ Channel NUMBER
- ▶ BROADCASTING NAME
- ▶ RECEPTION OF SIGNAL STRENGTH
- ▶ STATUS OF AUDIO(STEREO/MONO)



4.7 SETTING THE PICTURE SIZE

You can change the screen size based on the type of the TV you are using.

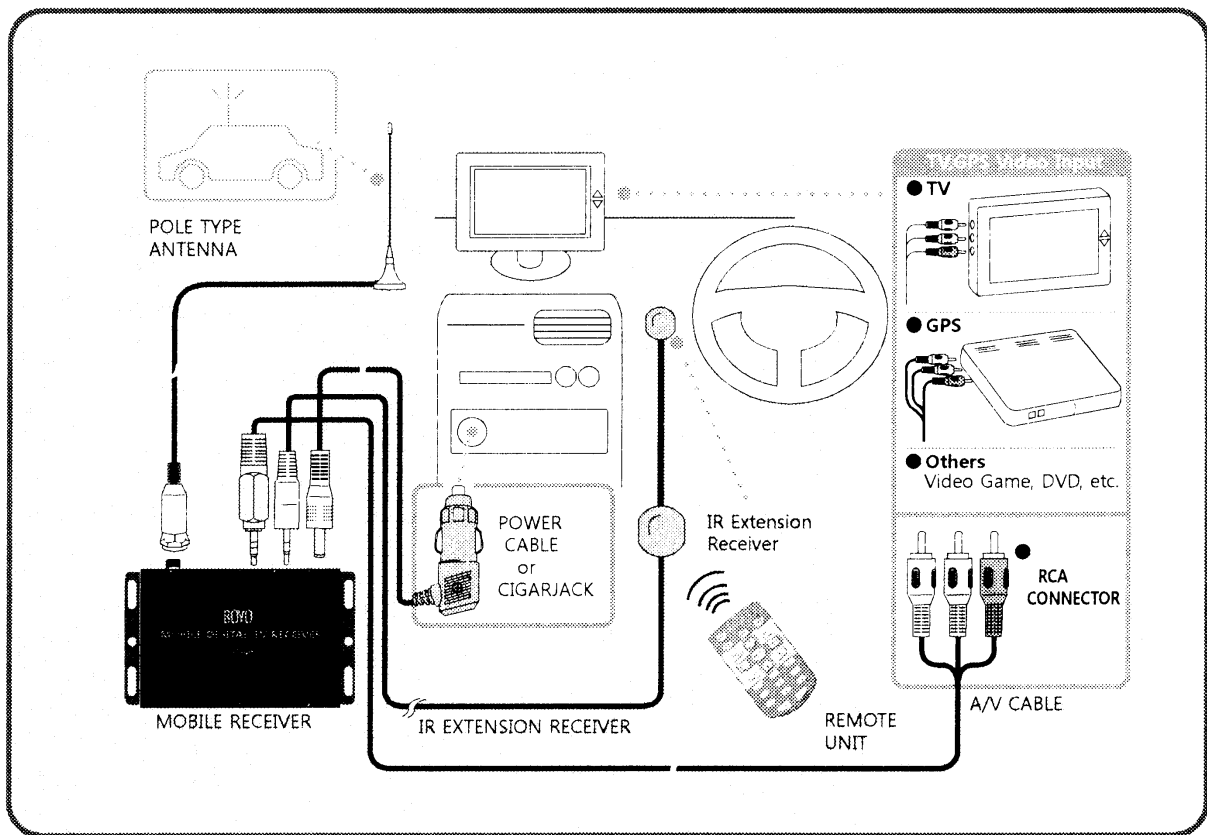
- ▶ You can change screen size between FULL and Normal in the menu.



5. INSTALLATION

5.1 INSTALLATION in the vehicle

You have to turn off engine of the vehicle before installing mobile receiver.
The antenna had better install on the roof of the vehicle to get best reception.



6. TROUBLESHOOTING

If you have difficulty with your ATSC-M/H DTV Receiver (VT-MH), there are several possibilities you should investigate before calling for a service technician.

Problem	Possible Solution
Receiver won't turn on	• Make sure the receiver's power cable is installed and that car is working. • Check the batteries in your remote unit to make sure they are fresh and installed correctly.
No color, or wrong colors	• Make sure you have connected the Receiver correctly to your DTV-ready or analog TV set. • Present area is receiving weak broadcast signal. Try moving the antenna in a different angle or location.
Poor sound quality, or no sound	• Make sure the audio system is connected correctly. • Try to tune to another channel - sometimes broadcasters have problems. • Make sure the MUTE function is turned off.
Remote Control doesn't work correctly	• Make sure you have installed batteries into the Remote. • Check to see the batteries are fresh.
Intermittent signal, or no signal at all	• Try to tune to another channel. • Make sure the antenna connection is connected. • Move the antenna for a stronger signal.

SPECIFICATIONS

1. GENERAL SPECIFICATIONS

DESCRIPTIONS	SPECIFICATIONS
VIDEO/AUDIO OUTPUT	1pcs
IR EXTENSION RECEIVER	1pcs
POWER INPUT	1pcs
SIZE	4.9"(W) x 2.5"(D) X 0.7"(H) 124(W) x 190(D) X 67(H) m/m
WEIGHT	0.39lbs(180g)

2. ELECTRONIC SPECIFICATIONS

DESCRIPTIONS	SPECIFICATIONS
DC POWER	DC 12V/24V
CONSUMPTION CURRENT	300mA/160mA
AUDIO OUTPUT LEVEL	0.5Vrms(10K ohms)
VIDEO OUTPUT LEVEL	1Vpp(75 ohms)
FREQUENCY RANGE	57~803MHz (VHF/UHF)
ANTENNA STYLE	Pole
ANTENNA INPUT IMPEDANCE	50 ohms
RECEPTION OF SIGNAL	-90dBm min
OPERATING TEMPERATURE	23°F(-5°C)~ +140°F(+60°C)

VISION TECH AMERICA, Inc.

9925 Painter Ave Unit K Whittier, CA 90605

Tel: 888-941-3060

E-mail: info@boyovta.com



MOBILE ATSC M/H DIGITAL TV RECEIVER

VT-MH



USED 12/24V DC

MADE IN KOREA



Product Registration

Vision Tech America, Inc.

Name _____ Company _____

Address _____

City _____ State _____ Zip _____

Phone _____ Email: _____

Model No. _____ Serial No. _____

Purchased Date _____ Store Name _____

City/State of Store _____

Limited One Year Warranty

**Headquarter
9925 Painter Ave Unit K
Whittier, CA 90605**

Tel: 888-941-3060

Email: info@boyovta.com

BOYO[®]
VISION

Vision Tech America, Inc.

Vision Tech America, Inc.

Limited One Year Warranty

This limited warranty is given to the end-user or the retail purchaser (referred to this warranty as ("Original Purchaser")) that it will be free from defects in material and workmanship for a period of one year from the date of the purchase of the new product (excluding accessory items such as power cords, cradle, memory card, adaptor and cables).

A copy of the original proof of purchase and this warranty card with RMA number given by Vision Tech America, Inc. is required to receive warranty service. In the unlikely event that the new product should fail due to defect in material or workmanship, Vision Tech America, Inc. will repair or replace the entire product, where each party will be responsible for one-way shipping.

This limited warranty does not cover any physical damage to this product damage caused by improper installation; improper use; misuse; neglect; repair of cracked, scratched, broken or modified cosmetics; or parts that have been altered or removed; damages done by another device used with this product resulting from use of non BOYO®- brand parts.

This warranty is VOID if you purchased this product as used, floor model sample, or refurbished; if the product has been altered or modified in any way (including but not limited to attempted repair without authorization from BOYO®- Vision Tech America, Inc. and/or alteration/removal of the serial number). This limited warranty does not cover the vehicle of any damages or liabilities in which this product is installed or being installed. This product does not guarantee avoidance of vehicle collision or accident

If you think your product is eligible for warranty service, report to Vision Tech America, Inc. at 888-941-3060 or email: info@boyovta.com to receive an RMA Number with further instructions.

Model Number:_____	Name: _____
Serial Number:_____	Your address:_____
Date of Purchase:_____	City:_____
Purchased Store Name:_____	State:_____ Zip_____
RMA Number:_____	Country:_____

Important: To send defective product for warranty service, you must receive RMA (Return Material Authorization) and include original proof of purchase and this warranty card with the shipment.